TP700
A5

INDEX---VOL. XX.

☞ An asterisk denotes illustrated article.

A.

Acid not a Poison, Carbonic, 61.
Anthracite Trade, 92.
Association of the United States,, Gas-Light, 167, 183.

B.

Bill Again, That, 38.
Bituminous Coals to the Seaboard, Expenses on, 112.

C.

Case, A Sad, 5.
Cholera by Fruit and Water, Propagation of, 7.
City, Lighting the, 23.
Catastrophe, A Frightful, 40.
Colors, Aniline, 97.
Circular, Trade, 129.
Coal in the United States in 1873, Consumption of, 165.
Coal Vein in India, Mammoth, 169.
Church, Gas Explosion in a, 169.
Cannel, Cannelton, 172.
Coal Injunction, Important, 187.
CORRESPONDENCE—
About Naphthaline—Rises to Explain, 58.
Coal Gas, Heating Retorts with, 6.
Chemistry, Centennial of, 172.
Diaphragms in Dry Meters, Destruction of Leathers of, 58
Explanation, An, 113.
Economy? What was the, 150.
Fuel, Tar for, 43.
Fuel, Petroleum, 113.
Gas, Brooklyn, 25.
Gas, Petroleum, 77, 95.
Gas Perfector, Scholl's, 150.
Gas Works, A Model, 150.
Gas Chemistry, A Bit of, 150.
Hydrogen Gas and Carbon, Combination of, 5, 24.
Information, Seeking, 150.
Naphthaline, On, 24.
Occurrence, Strange, 189.
Petroleum Gas, Crude, 5.
Tar for Fuel, Burning, 43, 58, 76, 131.

D.

Dumping Barrow, Patent, 1.

E.

Excerpts Chemical, 2, 20, 38, 56, 74, 92, 111, 128, 146, 154, 188.
English Street Gas, The Price of, 79.
EDITORIALS—
1873, 8,26.
Analyses, Coal, 80.
"*American Artisan*," The, 81.
Association of the United States, Gas-Light, 151, 190.
Address to the Association, Mr. Price's, 170.
Bogus Butter, 135.
Contributions, Mr. Hayes's, 45.
Coke, Gas Fuel vs., 62.
"*Coal Trade Journal*," Seward's, 81.
Coals, Sulphur Compounds in, 116.
Corpse Lights, 134.
Cannelite Again, Dr. Hayes on, 135.
Centennial, A Chemical, 170.
Engines, Gas, 9.
Exchanges, New, 27.
Figures, Erroneous, 191.
Gas, Municipal, 27.
Gas Through Pipes, Flow of, 62.
Growl, A Fraternal, 81.
Gas Coal Company, Monongahela, 81.
Gas Profession, Circular to the, 98.
Gas Imbroglio in Brooklyn, The, 98.
Gas Management, Practical Scientific Training in, 116.
Gas Wells: Thawing the Erie Cannel, 116.
Gas Works near the Metropolis, Petroleum, 151.
Gas Analyses Methods, Orsat's, 151.
Guano, Gas and, 191.
Geological Survey, A New Pennsylvania, 191.
Hurdles, Lime, 191.
Interesting Bit of History, A New and, 191.
Mr. Lippitt, Reply to, 152.
New York and Cleveland Coal Gas Company's Youghiogheny Coal, Report Upon the, 151.
New York, Gas Wells in, 170.
New Orleans, The Gas Litigation in, 171.
Obfuscation, 116.
Peytona Cannel, The, 98.
Professional, 117.
Prices of Coals: From Headquarters, 135.
Richmond Coal Basin, Mineral Coke, a Carbonite of the, 44.
Setting and Working Retorts, Cathels on, 62.
"Synopsis of British Gas-Lighting," Important Notice—Smedberg's, 117.
Sad Mistake, A, 134.
Tin "Bilk," The Neepagon Bay, 44.
The Sanitarian—A Writ of Error, 45.
Tar and Petroleum, Liquid Fuels, 62.
Thermometry by Sound—A Letter from Prof. Mayer, 98.
Tinkering, Patent Law, 171.
Tube Works Company, National, 191.
Unpleasantness at Wheeling, A Slight, 80.

F.

Fire Alarm, A Simple, 2.
Fire Damp, Mr. Wm. Galloway on, 40.
Fuel, Economy of, 132.
Fuel, Water vs., 167.

G.

Gas Manufacture, Some Notes on the Chemistry of, 4, 19, 55, 129, 148.
Gas, Tax on, 20.
Gas Movement in Buffalo, New, 23.
Gas Works, The Marquette, 39.
Gas Petroleum, 40.
Gas Officers, Election of, 56.
Gas Item, Jersey City, 56.
Gas Stove, 60.
Gas Commissioners, Meeting of, 74.
Gas Works in Vangirard, France, etc., The Apparatus Used for the Gas Works in, 95
Gum, Transparent, 110.
Gas Purification Patent, English, 114.
Gas, Sulphur in, 133.
Gas Well Useful, Making a, 146.
*Gaseous Products of Combustion, Orsat's Apparatus for Analyses of, 147.
Gas Works, New, 150.
Gas Wells—Canal Navigation in Winter, 153.
Gas Case Decided, The New Orleans, 166.
Gas Item, Scottish, 188.
Gas Lyric, Another, 189.
Gas Works Roof, Fall of a, 189.

H.

Hydraulic Operation, Magnificent, 92.
Hudson and East Rivers, Encroachment on the, 93.

I.

Items, Water, 74.
*Institute of Technology, The Massachusetts, 109.

J.

Jet and its Manufacture, Whitby, 114.

L.

Light, Heat and, 1.
Light, 23.
Legislative, 79.
Liquor Examiners, Board of, 97.
Lignite, An Examination of, 127.
Loggerheads, City Companies at, 133.
London in 1806, Coal Gas Illumination in, 1?8.

M.

Meters to Street Lamps, Application of, 37.
Municipal Management, The Beauties of, 96.

N.

New York, Wages in, 56.

O.

Ogdensburgh, Polluted Well in, 97.

P.

Pulsometer, Hall's, 7.
Paraffine, Petroleum, 37.
Purification of Mercury, On the, 91.
Purification, Gas, 91.
Prices for Gas, British, 96.
Petroleum Gas Making, Notes on, 168.
Parks, Gas for the, 168.

R.

Report and Analyses of Coal—Monongahela Gas Company, 77.

S.

Scheme, Cheesborough's, 2.
Smoke, Fuel Burning without, 97.
Standard Burner, A New, 113.
Stoves, Mica—Substitute for, 127.
Sediment, Mississippi, 131.
*Sound from Flames and Heated Gases, Experiments on the Reduction of, 145.
Street Bonfires, Naphtha for, 149.
Stamboul, Gas in, 172.

T.

Tar Oil and Dross, The Manufacture of Gas from, 3.
Tar, Coal, 79.
Typhoids, Sewer-Gas and, 92.
The Right Way and the Wrong Way—Petroleum Gas—How to Measure it, 95.
Tunnel, Bergen Hill, 167.
Transportation, Pipe-Way, 168.

V.

Vapor Engine, The Ellis, 1.

W.

Water on the Surface of our Earth, The Circulation of, 6, 22, 39.
Water Gas Researches American, 21, 57, 75, 93, 112, 130, 148, 168.
Waters of the Passaic River, Second Chemical and Sanitary Report Upon, 40, 59, 73.
Water Pipes, Leaden, 61.
Wheeling, West Va., Gas Meters in, 78.
Wilkesbarre, Fire in a Mine at, 92.
Water on Leaden Pipes, The Action of, 95.
What a "Pome," Phœbus? 115.
Wollongong, Explanatory Regarding, 149, 165.
Water Supply, Domestic, 167.

TP700
A5

INDEX---VOL. XX.

☞ An asterisk denotes illustrated article.

A.

Acid not a Poison, Carbonic, 61.
Anthracite Trade, 92.
Association of the United States,, Gas-Light, 167, 183.

B.

Bill Again, That, 38.
Bituminous Coals to the Seaboard, Expenses on, 112.

C.

Case, A Sad, 5.
Cholera by Fruit and Water, Propagation of, 7.
City, Lighting the, 23.
Catastrophe, A Frightful, 40.
Colors, Aniline, 97.
Circular, Trade, 129.
Coal in the United States in 1873, Consumption of, 165.
Coal Vein in India, Mammoth, 169.
Church, Gas Explosion in a, 169.
Cannel, Cannelton, 172.
Coal Injunction, Important, 187.
CORRESPONDENCE—
About Naphthaline—Rises to Explain, 58.
Coal Gas, Heating Retorts with, 6.
Chemistry, Centennial of, 172.
Diaphragms in Dry Meters, Destruction of Leathers of, 58
Explanation, An, 113.
Economy? What was the, 150.
Fuel, Tar for, 43.
Fuel, Petroleum, 113.
Gas, Brooklyn, 25.
Gas, Petroleum, 77, 95.
Gas Perfector, Scholl's, 150.
Gas Works, A Model, 150.
Gas Chemistry, A Bit of, 150.
Hydrogen Gas and Carbon, Combination of, 5, 24.
Information, Seeking, 150.
Naphthaline, On, 24.
Occurrence, Strange, 189.
Petroleum Gas, Crude, 5.
Tar for Fuel, Burning, 43, 58, 76, 131.

D.

Dumping Barrow, Patent, 1.

E.

Excerpts Chemical, 2, 20, 38, 56, 74, 92, 111, 128, 146, 154, 188.
English Street Gas, The Price of, 79.
EDITORIALS—
1873, 8,26.
Analyses, Coal, 80.
"*American Artisan*," The, 81.
Association of the United States, Gas-Light, 151, 190.
Address to the Association, Mr. Price's, 170.
Bogus Butter, 135.
Contributions, Mr. Hayes's, 45.
Coke, Gas Fuel vs., 62.
"*Coal Trade Journal*," Seward's, 81.
Coals, Sulphur Compounds in, 116.
Corpse Lights, 134.
Cannelite Again, Dr. Hayes on, 135.
Centennial, A Chemical, 170.
Engines, Gas, 9.
Exchanges, New, 27.
Figures, Erroneous, 191.
Gas, Municipal, 27.
Gas Through Pipes, Flow of, 62.
Growl, A Fraternal, 81.
Gas Coal Company, Monongahela, 81.
Gas Profession, Circular to the, 98.
Gas Imbroglio in Brooklyn, The, 98.
Gas Management, Practical Scientific Training in, 116.
Gas Wells: Thawing the Erie Cannel, 116.
Gas Works near the Metropolis, Petroleum, 151.
Gas Analyses Methods, Orsat's, 151.
Guano, Gas and, 191.
Geological Survey, A New Pennsylvania, 191.
Hurdles, Lime, 191.
Interesting Bit of History, A New and, 191.
Mr. Lippitt, Reply to, 152.
New York and Cleveland Coal Gas Company's Youghiogheny Coal, Report Upon the, 151.
New York, Gas Wells in, 170.
New Orleans, The Gas Litigation in, 171.
Obfuscation, 116.
Peytona Cannel, The, 98.
Professional, 117.
Prices of Coals: From Headquarters, 135.
Richmond Coal Basin, Mineral Coke, a Carbonite of the, 44.
Setting and Working Retorts, Cathels on, 62.
"Synopsis of British Gas-Lighting," Important Notice—Smedberg's, 117.
Sad Mistake, A, 134.
Tin "Bilk," The Neepagon Bay, 44.
The Sanitarian—A Writ of Error, 45.
Tar and Petroleum, Liquid Fuels, 62.
Thermometry by Sound—A Letter from Prof. Mayer, 98.
Tinkering, Patent Law, 171.
Tube Works Company, National, 191.
Unpleasantness at Wheeling, A Slight, 80.

F.

Fire Alarm, A Simple, 2.
Fire Damp, Mr. Wm. Galloway on, 40.
Fuel, Economy of, 132.
Fuel, Water vs., 167.

G.

Gas Manufacture, Some Notes on the Chemistry of, 4, 19, 55, 129, 148.
Gas, Tax on, 20.
Gas Movement in Buffalo, New, 23.
Gas Works, The Marquette, 39.
Gas Petroleum, 40.
Gas Officers, Election of, 56.
Gas Item, Jersey City, 56.
Gas Stove, 60.
Gas Commissioners, Meeting of, 74.
Gas Works in Vangirard, France, etc., The Apparatus Used for the Gas Works in, 95
Gum, Transparent, 110.
Gas Purification Patent, English, 114.
Gas, Sulphur in, 133.
Gas Well Useful, Making a, 146.
*Gaseous Products of Combustion, Orsat's Apparatus for Analyses of, 147.
Gas Works, New, 150.
Gas Wells—Canal Navigation in Winter, 153.
Gas Case Decided, The New Orleans, 166.
Gas Item, Scottish, 188.
Gas Lyric, Another, 189.
Gas Works Roof, Fall of a, 189.

H.

Hydraulic Operation, Magnificent, 92.
Hudson and East Rivers, Encroachment on the, 93.

I.

Items, Water, 74.
*Institute of Technology, The Massachusetts, 109.

J.

Jet and its Manufacture, Whitby, 114.

L.

Light, Heat and, 1.
Light, 23.
Legislative, 79.
Liquor Examiners, Board of, 97.
Lignite, An Examination of, 127.
Loggerheads, City Companies at, 133.
London in 1806, Coal Gas Illumination in, 1?8.

M.

Meters to Street Lamps, Application of, 37.
Municipal Management, The Beauties of, 96.

N.

New York, Wages in, 56.

O.

Ogdensburgh, Polluted Well in, 97.

P.

Pulsometer, Hall's, 7.
Paraffine, Petroleum, 37.
Purification of Mercury, On the, 91.
Purification, Gas, 91.
Prices for Gas, British, 96.
Petroleum Gas Making, Notes on, 168.
Parks, Gas for the, 168.

R.

Report and Analyses of Coal—Monongahela Gas Company, 77.

S.

Scheme, Cheesborough's, 2.
Smoke, Fuel Burning without, 97.
Standard Burner, A New, 113.
Stoves, Mica—Substitute for, 127.
Sediment, Mississippi, 131.
*Sound from Flames and Heated Gases, Experiments on the Reduction of, 145.
Street Bonfires, Naphtha for, 149.
Stamboul, Gas in, 172.

T.

Tar Oil and Dross, The Manufacture of Gas from, 3.
Tar, Coal, 79.
Typhoids, Sewer-Gas and, 92.
The Right Way and the Wrong Way—Petroleum Gas—How to Measure it, 95.
Tunnel, Bergen Hill, 167.
Transportation, Pipe-Way, 168.

V.

Vapor Engine, The Ellis, 1.

W.

Water on the Surface of our Earth, The Circulation of, 6, 22, 39.
Water Gas Researches American, 21, 57, 75, 93, 112, 130, 148, 168.
Waters of the Passaic River, Second Chemical and Sanitary Report Upon, 40, 59, 73.
Water Pipes, Leaden, 61.
Wheeling, West Va., Gas Meters in, 78.
Wilkesbarre, Fire in a Mine at, 92.
Water on Leaden Pipes, The Action of, 95.
What a "Pome," Phœbus? 115.
Wollongong, Explanatory Regarding, 149, 165.
Water Supply, Domestic, 167.